

## 2\_Week\_4 | Project

### BACK

I want you to create an Express application that consist of:

- a login/signup system, with an authentication based on JWT Token
- a route that return the list of users of the app (need to be authenticated)
- **new!** a route that return a specific user of the app (need to be authenticated)
- **new!** a route that edit the current user of the app (need to be authenticated)
- a route that return the list of messages of the current users (need to be authenticate)
- a route that send a message to a specific user (need to be authenticated)
- a route that update a message (only the *reader* can use this route and can update only ``read`` and ``readDate``)
- **new!** a route that create a product and attach it to the current user (need to be authenticated)
- **new!** a route that return the list of products (need to be authenticated)
- **new!** a route that return the list of a specific product (need to be authenticated)
- **new!** a route that return the list of products of the current users (need to be authenticated)

The different routes of the backend should be **exactly as** the description in the next page.

## FRONT

I want you to create a Vue application that consist of two view:

- a (non logged) view that contain:

- a login component
- a signup component

(only one can be displayed at the same time)

- a (logged) view that contain:

- HOME: **new!** a view that display the list of the last ten products

- USERS: a view that display the users list. In the users list, you should have a 'Send Message' button for each users

- when clicking on 'Send Message' button, you should go to a view that can send a message to the specific user

- MESSAGES: a view that display the list of messages of the current user. Each message can have two state : read / unread. Each of this state should be represented through a different style. In this list, a message should only show the sender and the title of the message.

- when clicking on a message, we should go to another view that display the full detail of the message. After this action (clicking on a message), we should update the message in the BE and update his read and readDate value.

- **new!** PROFILE: a view that display the current user info. This view should contain a menu where you can navigate through three sub view:

- a view that contain a form where you can change current user info (everything can be changed, except the username)

- a view that contain the list of products of the current user

- a view that contain a form to create a new product

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We need to navigate between the main views through a menu.

For the message lists view, you can inspire yourself with gmail.

You need to implement **Vue-router**.

You need to connect every component with his corresponding routes in BE (using Axios or Vue-ressource)

All datas should be stored in a database.

## BONUS

Front:

- in the home view, display a map using Leaflet
- geolocate the current user, and add external api to retrieve exact address
- display in the map the ten last products

## BACK END DESCRIPTION

### LOGIN

Url: **'POST'** /auth/login'

Parameters (body):

```
{
    username: String,
    password: String
}
```

Return value:

```
{
    success: Boolean,
    token: JWT Token,
}
```

### SIGNUP

Url: **'POST'** /auth/signup'

Parameters (body):

```
{
    username: String,
    password: String,
    firstName: String (optional),
    lastName: String (optional)
}
```

Return value:

```
{
    success: Boolean,
    content: User Profile (User: see below)
}
```

### USERS

Url: **'GET'** /users' | *Need authentication*

Return value:

```
{
    success: Boolean,
    content: List of Users (User: see below {without password})
}
```

Url: **'GET'** /users/:id' | *Need authentication*

Return value:

```
{
    success: Boolean,
    content: User (User: see below {without password})
}
```

### MESSAGES

Url: **'GET'** /messages' | *Need authentication*

Return value:

```
{
    success: Boolean,
    content: List of Messages of the current user (Messages: see below)
}
```

Url: **'POST'** /messages' | *Need authentication*

Parameters (body):

```
{
    title: String,
    content: String,
    userID: ID or username of the User who will received the message
}
```

Return value:

```
{
    success: Boolean,
}
```

Url: **'PUT'** /messages/:messageID' | *Need authentication*

Parameters (body):

```
{
```

```
        read: Boolean,
        readDate: Date of read
    }
Return value:
{
    success: Boolean,
}
```

## PRODUCTS

Url: '**GET** /products' | *Need authentication*

Return value:

```
{
    success: Boolean,
    content: List of Products (User: see below {without password})
}
```

Url: '**GET** /products/:id' | *Need authentication*

Return value:

```
{
    success: Boolean,
    content: Product (User: see below {without password})
}
```

Url: '**POST** /products' | *Need authentication*

Parameters (body): **Product Object (except id, userId and address)** (see below)

Return value:

```
{
    success: Boolean,
}
```

## PROFILE

Url: '**GET** /profile' | *Need authentication*

Return value:

```
{
    success: Boolean,
    content: Current connected user (User: see below {without password})
}
```

Url: '**GET** /profile/products' | *Need authentication*

Return value:

```
{
    success: Boolean,
    content: List of products of the current user (Products: see below)
}
```

Url: '**PUT** /profile' | *Need authentication*

Parameters (body):

```
{
    ... every field of the User object (except the username and id)
}
```

Return value:

```
{
    success: Boolean,
}
```

## DATA STRUCTURE

**User** is represented as:

```
{
  id: Uniq User ID,
  username: String, | should be an email, and should be uniq,
  password: String,
  firstName: String (optional),
  lastName: String (optional),
  address: Address Object (see below, optional)
  createDate: Date
}
```

**Message** is represented as:

```
{
  id: Uniq Message ID,
  title: String,
  content: String,
  createDate: Date,
  read: Boolean,
  readDate: Date (optional),
  senderId: ID or username of the User who sent the message,
  receiverId: ID or username of the User who received the message
}
```

**Product** is represented as:

```
{
  id: Uniq Message ID,
  createDate: Date Object,
  title: String,
  description: String,
  price: String,
  pictures: List of pictures (optional)
  userId: ID or username of the User who created the product
  address: Address Object (see below, optional),
}
```

**Address** is represented as:

```
{
  country: String (optional),
  region: String (optional),
  city: String (optional),
  street: String (optional),
  longitude: Number (optional),
  latitude: Number (optional),
}
```

## ERROR HANDLING

If someone try to access a route that need authentication but doesn't have a good token, it should automatically return this response:

```
{
  success: false,
  message: 'You should be authenticated to access this route!'
```

